

September 25 - October 2, 2003

<P>The Terra spacecraft is in nominal mode. All instruments are in Science Mode.</P>

<P>To compensate for the loss of two MODIS Solid State Recorder (SSR) supersets during the previous week, on Tuesday, September 20, 2003, the Terra Flight Operations Team reallocated one superset from MISR to the MODIS buffer to help avoid an overwrite condition from occurring with the MODIS buffer prior to lock up replay. Replay of the MODIS buffer is generally required after initial playback due to occasional data loss at the beginning of playback sessions resulting from the time required to lock up on the K-band signal.</P>

<P>SSR buffer sizing was changed in the EOC Mission Planning System (MMS) parameter files and relevant ASSET tool reference files to continue to accurately model SSR fill status.</P>

<P>Work to fully characterize and diagnose cause of anomaly continues. The Anomaly Team will have a full meeting on Friday October 3 to assess the status of the investigation and plan future activities. The team is working with the SSR Subsystem Engineer from the spacecraft manufacturer, AETD personnel, and the SSR vendor to determine if space environmental factors (radiation effects, etc.) may be a potential cause of these anomalies. The team is also investigating the possibility of power surges, arcing, or unusual events in association with orbital night/day transitions.</P>

<P>
Plans

 The next maneuver (a lunar calibration roll maneuver for MODIS) is scheduled for October 15; and

 Continue preliminary planning for potential third Deep Space Calibration Maneuver on December 6.

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